

## WEST Search History

DATE: Saturday, April 05,, 2003

<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
<i>DB=USPT,PGPB; PLUR=YES; OP=ADJ</i>			
L7	L5 and frond	3	L7
L6	L5 and fron	0	L6
L5	L4 and tissue	20	L5
L4	l1 and stable	20	L4
L3	L2 and trangenic	2	L3
L2	lemnna	260	L2
L1	duckweed and transgenic	28	L1

END OF SEARCH HISTORY

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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2	Apr 08	"Ask CAS" for self-help around the clock
NEWS	3	Apr 09	BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS	4	Apr 09	ZDB will be removed from STN
NEWS	5	Apr 19	US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS	6	Apr 22	Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS	7	Apr 22	BIOSIS Gene Names now available in TOXCENTER
NEWS	8	Apr 22	Federal Research in Progress (FEDRIP) now available
NEWS	9	Jun 03	New e-mail delivery for search results now available
NEWS	10	Jun 10	MEDLINE Reload
NEWS	11	Jun 10	PCTFULL has been reloaded
NEWS	12	Jul 02	FOREGE no longer contains STANDARDS file segment
NEWS	13	Jul 22	USAN to be reloaded July 28, 2002; saved answer sets no longer valid
NEWS	14	Jul 29	Enhanced polymer searching in REGISTRY
NEWS	15	Jul 30	NETFIRST to be removed from STN
NEWS	16	Aug 08	CANCERLIT reload
NEWS	17	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS	18	Aug 08	NTIS has been reloaded and enhanced
NEWS	19	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS	20	Aug 19	IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS	21	Aug 19	The MEDLINE file segment of TOXCENTER has been reloaded
NEWS	22	Aug 26	Sequence searching in REGISTRY enhanced
NEWS	23	Sep 03	JAPIO has been reloaded and enhanced
NEWS	24	Sep 16	Experimental properties added to the REGISTRY file
NEWS	25	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS	26	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS	27	Oct 21	EVENTLINE has been reloaded
NEWS	28	Oct 24	BEILSTEIN adds new search fields
NEWS	29	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS	30	Oct 25	MEDLINE SDI run of October 8, 2002
NEWS	31	Nov 18	DKILIT has been renamed APOLLIT
NEWS	32	Nov 25	More calculated properties added to REGISTRY
NEWS	33	Dec 02	TIBKAT will be removed from STN
NEWS	34	Dec 04	CSA files on STN
NEWS	35	Dec 17	PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS	36	Dec 17	TOXCENTER enhanced with additional content
NEWS	37	Dec 17	Adis Clinical Trials Insight now available on STN
NEWS	38	Dec 30	ISMEC no longer available
NEWS	39	Jan 21	NUTRACEUT offering one free connect hour in February 2003
NEWS	40	Jan 21	PHARMAML offering one free connect hour in February 2003
NEWS	41	Jan 29	Simultaneous left and right truncation added to COMPENDEX, ENERGY, INSPEC
NEWS	42	Feb 13	CANCERLIT is no longer being updated
NEWS	43	Feb 24	METADEX enhancements
NEWS	44	Feb 24	PCTGEN now available on STN
NEWS	45	Feb 24	TEMA now available on STN

NEWS 46 Feb 26 NTIS now allows simultaneous left and right truncation  
 NEWS 47 Feb 26 PCTFULL now contains images  
 NEWS 48 Mar 04 SDI PACKAGE for monthly delivery of multifile SDI results  
 NEWS 49 Mar 19 APOLLIT offering free connect time in April 2003  
 NEWS 50 Mar 20 EVENTLINE will be removed from STN  
 NEWS 51 Mar 24 PATDPAFULL now available on STN  
 NEWS 52 Mar 24 Additional information for trade-named substances without  
 structures available in REGISTRY  
 NEWS 53 Mar 24 Indexing from 1957 to 1966 added to records in CA/CAPLUS

NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT  
 MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),  
 AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003  
 NEWS HOURS STN Operating Hours Plus Help Desk Availability  
 NEWS INTER General Internet Information  
 NEWS LOGIN Welcome Banner and News Items  
 NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
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 specific topic.

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FILE 'HOME' ENTERED AT 14:30:31 ON 05 APR 2003

=> file agricola caplus biosis  
 COST IN U.S. DOLLARS

	SINCE FILE	TOTAL
FULL ESTIMATED COST	ENTRY	SESSION
	0.21	0.21

FILE 'AGRICOLA' ENTERED AT 14:30:42 ON 05 APR 2003

FILE 'CAPLUS' ENTERED AT 14:30:42 ON 05 APR 2003  
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
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 COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'BIOSIS' ENTERED AT 14:30:42 ON 05 APR 2003  
 COPYRIGHT (C) 2003 BIOLOGICAL ABSTRACTS INC.(R)

=> s duckweed or lemna or spirodela or wolffia or wolffiella  
 L1 7285 DUCKWEED OR LEMNA OR SPIRODELA OR WOLFFIA OR WOLFFIELLA

=> s l1 and transgenic  
 L2 22 L1 AND TRANSGENIC

=> del l2 y

=> s l1 and (transgenic or transform?)  
 L2 91 L1 AND (TRANSGENIC OR TRANSFORM?)

=> s l2 and stable  
 L3 6 L2 AND STABLE

=> dup rem l3  
 PROCESSING COMPLETED FOR L3  
 L4 3 DUP REM L3 (3 DUPLICATES REMOVED)

=> d 1-3 ti

L4 ANSWER 1 OF 3 AGRICOLA DUPLICATE 1  
TI **Stable** isotope techniques for the analysis of indole auxin metabolism in normal and mutant plants.

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 2  
TI D1-D2-cytochrome b559 complex from the aquatic plant **Spirodela** oligorrhiza: correlation between complex integrity, spectroscopic properties, photochemical activity, and pigment composition

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 3  
TI Evidence for uptake of plamid DNA into intact plants (**Lemna** perpusilla) proved by an E. coli **transformation** assay

=> d 1-3 ab

L4 ANSWER 1 OF 3 AGRICOLA DUPLICATE 1

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 2  
AB A D1-D2-cyt b559 complex with about 4 attached chlorophylls and 2 pheophytins was isolated from photosystem II of the aquatic plant **S. oligorrhiza** and used for studying the detergent-induced changes in spectroscopic properties and photochem. activity. Spectral analyses (absorption, CD, and fluorescence) of D1-D2-cyt b559 preps. that were incubated with different concns. of the detergent Triton X-100 indicate 2 forms of the D1-D2-cyt b559 complexes. One of them is photochem. active and has an absorption max. at 676 nm, weak fluorescence at 685 nm, and a strong CD signal. The other is photochem. inactive, with an absorption max. at 670 nm, strong fluorescence at 679 nm, and much weaker CD. The relative concns. of the 2 forms det. the overall spectra of the D1-D2-cyt b559 prepn. and can be deduced from the wavelength of the lowest energy absorption band: preps. having max. absorption at 674, 672, or 670.5 nm have approx. 20, 60, or 85% inactive complexes. The active form contains 2 chlorophylls with max. absorption at 679 nm and CD signals at 679 (+) and 669 nm (-). These chlorophylls make a special pair that is identified as the primary electron donor P680. The calcd. sepn. between the centers of these 2 pigments (using an extended version of the exciton theory) is about 10 .ANG., the pigments' mol. planes are tilted by about 20.degree., and their N1-N3 axes are rotated by 150.degree. relative to each other. The other 2 chlorophylls and 1 of the 2 pheophytins in the D1-D2-cyt b559 complex have their max. absorption at 672 nm, while the max. absorption of the photochem. active pheophytin is probably at 672-676 nm. During incubation with Triton X-100, the photochem. active complex is **transformed** into an inactive form with first-order kinetics. In the inactive from the max. absorption of the 679 nm absorbing Chls is blue-shifted to 669 nm. The first-order decay of the photochem. activity suggests that the isolated D1-D2-cyt b559 complex is **stable** as an aggregate but becomes unstable on dissocn. into individual D1-D2-cyt b559 units.

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 3  
AB The water plant **L. perpusilla** was incubated with the E. coli plasmids pMB9 and pBR325, resp. Uptake of plasmids was shown by subsequent **transformation** of E. coli cells to tetracycline resistance after treatment with **Lemna** DNA from plasmid-incubated plants. In 7 out of 15 assays **stable transformants** were found. From the **transformation** rate an amt. of  $10^{-4}$  to  $10^{-6}$  .mu.g plasmid DNA per 10 .mu.g of plant DNA can be calcd.

=> s 12 and transient

L5 6 L2 AND TRANSIENT

=> dup rem 15

PROCESSING COMPLETED FOR L5

L6 5 DUP REM L5 (1 DUPLICATE REMOVED)

=> d 1-5 ti

L6 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 1  
TI **Transient transformation of Wolffia**  
columbiana by particle bombardment

L6 ANSWER 2 OF 5 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
TI A **transient transformation** system for **duckweed**  
(*Wolffia columbiana*) using *Agrobacterium*-mediated gene transfer.

L6 ANSWER 3 OF 5 AGRICOLA  
TI Analysis of genes negatively regulated by phytochrome action in  
*Lemna gibba* and identification of a promoter region required for  
phytochrome responsiveness.

L6 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2003 ACS  
TI **Transient** expression of photosynthetic genes in transfected  
albinoid petunia protoplasts and correct processing of newly synthesized  
chloroplast-destined polypeptides

L6 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2003 ACS  
TI Deletion analysis of a phytochrome-regulated monocot *rbcS* promoter in a  
**transient** assay system

=> d so

L6 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 1  
SO Aquatic Botany (2002), 72(2), 175-181  
CODEN: AQBODS; ISSN: 0304-3770

=> d ab

L6 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 1  
AB The biolistic approach was used to **transform Wolffia**  
*columbiana* by introducing the plasmid pCAMBIA1301, which contains a *uidA*  
reporter construct under control of the constitutive CaMV 35S promoter.  
The expression pattern of the *uidA* reporter gene indicated that  
*Wolffia* was at least transiently **transformed** by  
biolistic particle delivery. When gold particles of 0.6 .mu.m diam. were  
accelerated at 1350 psi with a target distance of 60 mm a  
**transformation** rate of 19.+-.1% and a survival rate of 70-80% were  
achieved. The results will serve as a basis for the in vivo or in vitro  
regeneration of **transgenic duckweed** fronds.

=> d so

L6 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 1  
SO Aquatic Botany (2002), 72(2), 175-181  
CODEN: AQBODS; ISSN: 0304-3770

=> d au

L6 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 1  
AU Kruse, Cordula; Boehm, Robert; Voeste, Dirk; Barth, Stefan; Schnabl, Heide

=> d 2 au

- L6 ANSWER 2 OF 5 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AU Boehm, Robert; Kruse, Cordula; Voeste, Dirk; Barth, Stefan; Schnabl, Heide  
(1)

=> d 2 ab

- L6 ANSWER 2 OF 5 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AB Since duckweed (Lemnaceae family) is a valuable target plant for various applications including waste water treatment and food purposes, the expression of homologous or heterologous proteins may offer an extended range of application. Therefore, the feasibility of **transformation** of *Wolffia columbiana* (Lemnaceae) by *Agrobacterium tumefaciens*-mediated gene transfer has been elucidated. Several methods were tested to increase the accessibility of the plant cells for the infecting *Agrobacterium tumefaciens* strain LBA4404, harboring p35SGUSINT : corundum- and gold particle-treatment, vacuum infiltration and disintegration of the fronds. The resulting overall **transformation** efficiency was higher than without any treatment, reaching an average of 3.9% of all fronds showing GUS staining. Induction of *Agrobacterium*'s vir genes by media conditions as well as the presence of 0.6 M mannitol during infection resulted in a clear increase of **transformation** efficiency. Max. approx. 30 %, average 15-20 % of fronds showing GUS staining were obtained both with corundum-treated as well as with vacuum infiltrated fronds, but **transformation** pattern was different. Whereas in the former mainly epidermal and subepidermal cells were **transformed**, the latter showed, in addition, **transformed** inner frond cells, including the meristematic region. Disintegration of the fronds, followed by vacuum infiltration, led to whole GUS-stained areas of the frond fragments. The results as such and the observed **transformation** patterns will serve as a basis for offering good conditions either in the in vivo - or the in-vitro-regeneration of **transgenic duckweed** fronds.

=> d 2 so

- L6 ANSWER 2 OF 5 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
SO Journal of Applied Botany, (August, 2001) Vol. 75, No. 3-4, pp. 107-111.  
print.  
ISSN: 0949-5460.

=> d 3 ab

- L6 ANSWER 3 OF 5 AGRICOLA  
AB As a step to understanding how the photoreceptor phytochrome acts to change the transcription of specific nuclear genes in *Lemna gibba*, we wish to compare promoter elements involved in negative regulation by phytochrome with those involved in positive regulation. We have isolated three genes negatively regulated by phytochrome, designated NPR (negatively phytochrome regulated) genes (P.A. Okubara, E.M. Tobin [1991] Plant Physiol 96:1237- 1245), and we have now sequenced two of these. The promoters of both contain some sequence motifs that are identical with motifs from other genes. We used a **transient** assay in *L. gibba* to demonstrate that approximately 1.7 kb pairs of the NPR 1 promoter and 1.1 kb pairs of the NPR2 promoter could confer negative phytochrome regulation to a luciferase reporter gene. Deletion analysis of the NPR2 promoter showed that sequences between -208 and -82 from the

transcription start were necessary for negative phytochrome regulation. However, this region was not sufficient to confer negative regulation by phytochrome to another promoter. Additionally, we noted that this region showed no similarity to a region identified as important for the negative regulation of the oat phyA promoter (W.B. Bruce, X.-W. Deng, P.H. Quail [1991] EMBO J 10:3015-3024), but it does contain a sequence element found in several other kinds of genes, including ones positively regulated by phytochrome. The deduced amino acid sequences of NPR1 and NPR2 were found to share similarities with many abscisic acid-induced or seed-abundant proteins. Thus, these genes, like other phytochrome-regulated genes, might respond to multiple regulatory signals.

=> d 3 au

L6 ANSWER 3 OF 5 AGRICOLA

AU Okubara, P.A.; Williams, S.A.; Doxsee, R.A.; Tobin, E.M.

=> d 3 so

L6 ANSWER 3 OF 5 AGRICOLA

SO Plant physiology, Mar 1993. Vol. 101, No. 3. p. 915-924  
Publisher: Rockville, MD : American Society of Plant Physiologists, 1926-  
CODEN: PLPHAY; ISSN: 0032-0889

=> dup rem l2

PROCESSING COMPLETED FOR L2

L7 69 DUP REM L2 (22 DUPLICATES REMOVED)

=> s 17 and transgenic

L8 18 L7 AND TRANSGENIC

=> d 1-10 ti

L8 ANSWER 1 OF 18 AGRICOLA

TI Genetic transformation of duckweed Lemna gibba and Lemna minor.

L8 ANSWER 2 OF 18 AGRICOLA

TI Overexpression of D-myo-inositol-3-phosphate synthase leads to elevated levels of inositol in Arabidopsis.

L8 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2003 ACS

TI Sequences of Arabidopsis thaliana benzodiazepine/benzodiazepine-like receptor protein functioning as ion channels and use for regulating plant metabolism

L8 ANSWER 4 OF 18 CAPLUS COPYRIGHT 2003 ACS

TI Regulation of glutamic acid decarboxylase activity in transgenic plants for improved gamma-aminobutyric acid production and tolerance of plant stress

L8 ANSWER 5 OF 18 CAPLUS COPYRIGHT 2003 ACS

TI Transient transformation of Wolffia columbiana by particle bombardment

L8 ANSWER 6 OF 18 CAPLUS COPYRIGHT 2003 ACS

TI Sequence of Douglas fir luminal binding protein gene promoter PmBiPPro1 and uses in transgene expression in plants

L8 ANSWER 7 OF 18 CAPLUS COPYRIGHT 2003 ACS

TI Transgenic plants having increased methionine content due to

reduction of threonine synthase activity

L8 ANSWER 8 OF 18 CAPLUS COPYRIGHT 2003 ACS

TI Expression of multiple genes in a single operon in plants and uses as insecticides and in degrading inorganic or organic metal compounds in soil and water

L8 ANSWER 9 OF 18 CAPLUS COPYRIGHT 2003 ACS

TI Adenosine phosphosulfate reductase cDNA-expressing **transgenic** plants enriched in cysteine and glutathione content

L8 ANSWER 10 OF 18 CAPLUS COPYRIGHT 2003 ACS

TI Ligand-gated ion channel GLR4 from *Arabidopsis thaliana* and methods of regulating plant metabolism

=> d so

L8 ANSWER 1 OF 18 AGRICOLA

SO In vitro cellular & developmental biology. Plant : journal of the Tissue Culture Association, May/June 2001. Vol. 37, No. 3. p. 349-353  
Publisher: Largo, MD : Society for In Vitro Biology.  
CODEN: IVCPEO; ISSN: 1054-5476

=> d 3 ab

L8 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2003 ACS

AB The present invention provides sequences of *Arabidopsis thaliana* benzodiazepine or benzodiazepine-like receptor proteins, which are expected to function as modulators of GABA action and, in particular, as ion channels, such as ligand-gated ion channels. The invention also provides recombinant vectors including the nucleotide sequences encoding the proteins. Further provided are plant host cells that include the recombinant vectors, **transgenic** plants and methods of using the nucleotide and amino acid sequences described herein, including methods of treating plants, methods of expressing the proteins described herein, methods of modifying receptor activity in a plant and methods of regulating plant metab.

=> d 5 so

L8 ANSWER 5 OF 18 CAPLUS COPYRIGHT 2003 ACS

SO Aquatic Botany (2002), 72(2), 175-181  
CODEN: AQBODS; ISSN: 0304-3770

=> d 7 ab

L8 ANSWER 7 OF 18 CAPLUS COPYRIGHT 2003 ACS

AB **Transgenic** plants are described which have an increased methionine content due to the redn. of the activity of threonine synthase in cells of these plants. Furthermore, methods for the prepn. of such cells are described as well as the use of nucleic acid mols. encoding threonine synthase for the prepn. of the described **transgenic** plants. Successful use of this method has been demonstrated in potato plants, *Arabidopsis* and *Lemna* which had elevated levels of methionine.

=> d 7 so

L8 ANSWER 7 OF 18 CAPLUS COPYRIGHT 2003 ACS



SO PCT Int. Appl., 43 pp.  
CODEN: PIXXD2

=> d 7 pi

L8 ANSWER 7 OF 18 CAPLUS COPYRIGHT 2003 ACS  
PATENT NO. KIND DATE APPLICATION NO. DATE  
-----  
PI WO 2001075130 A1 20011011 WO 2001-EP3842 20010404  
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM,  
HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,  
LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO,  
RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ,  
VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,  
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

=> d 10 so

L8 ANSWER 10 OF 18 CAPLUS COPYRIGHT 2003 ACS  
SO PCT Int. Appl., 54 pp.  
CODEN: PIXXD2

=> d 10 pi

L8 ANSWER 10 OF 18 CAPLUS COPYRIGHT 2003 ACS  
PATENT NO. KIND DATE APPLICATION NO. DATE  
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PI WO 2000052137 A2 20000908  
WO 2000052137 A3 20010215 WO 2000-US5407 20000302  
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,  
CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,  
IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,  
MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,  
SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,  
AZ, BY, KG, KZ, MD, RU, TJ, TM  
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,  
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,  
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  
AU 2000038630 A5 20000921 AU 2000-38630 20000302  
EP 1158849 A2 20011205 EP 2000-917697 20000302  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO  
JP 2002541780 T2 20021210 JP 2000-602749 20000302

=> d 8 so

L8 ANSWER 8 OF 18 CAPLUS COPYRIGHT 2003 ACS  
SO PCT Int. Appl., 72 pp.  
CODEN: PIXXD2

=> d 8 pi

L8 ANSWER 8 OF 18 CAPLUS COPYRIGHT 2003 ACS  
PATENT NO. KIND DATE APPLICATION NO. DATE  
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PI WO 2001064024 A1 20010907 WO 2001-US6276 20010228

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

EP 1263281 A1 20021211 EP 2001-918264 20010228

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

US 2003041353 A1 20030227 US 2001-807723 20010418

=> d 9 pi

L8 ANSWER 9 OF 18 CAPLUS COPYRIGHT 2003 ACS  
PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 2001049855 A1 20010712 WO 2001-FR36 20010105

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

FR 2803484 A1 20010713 FR 2000-139 20000106

EP 1244792 A1 20021002 EP 2001-903880 20010105

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

=> d 11-18 ti

L8 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2003 ACS  
TI Methods and compositions for production of multimeric proteins in **transgenic** plants

L8 ANSWER 12 OF 18 CAPLUS COPYRIGHT 2003 ACS  
TI Methods for producing and recovering heterologous polypeptides from **transgenic** plants

L8 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2003 ACS  
TI Use of **transgenic** vascular aquatic plants as expression hosts in the manufacture of novel metabolites

L8 ANSWER 14 OF 18 CAPLUS COPYRIGHT 2003 ACS  
TI Light-inducible plant nucleoside diphosphate kinase (NDK) and cloning of cDNA encoding NDK from *Pisum sativum*

L8 ANSWER 15 OF 18 CAPLUS COPYRIGHT 2003 ACS  
TI Phytochrome regulation of transcription: biochemical and genetic approaches

L8 ANSWER 16 OF 18 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
TI Two light-responsive elements of pea chloroplastic fructose-1, 6-bisphosphatase gene involved in the red-light-specific gene expression in **transgenic** tobaccos.

L8 ANSWER 17 OF 18 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

TI A transient transformation system for duckweed (*Wolffia columbiana*) using *Agrobacterium*-mediated gene transfer.

L8 ANSWER 18 OF 18 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

TI ATP-GTP (NTP)-binding proteins and light signal transmission in the plasma membrane from etiolated pea seedlings.

=> d 13 so

L8 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2003 ACS  
SO Ger. Offen., 4 pp.  
CODEN: GWXXBX

=> d 13 pi

L8	ANSWER 13 OF 18	CAPLUS	COPYRIGHT 2003 ACS		
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	DE 19629402	A1	19980205	DE 1996-19629402	19960720
	DE 19629402	C2	19980514		

=> d 15 ab

L8 ANSWER 15 OF 18 CAPLUS COPYRIGHT 2003 ACS  
AB Phytochrome-regulated expression of reporter genes attached to *Lemna gibba* phytochrome-regulated promoters was obsd. after *Agrobacterium*-mediated transformation of tobacco and biolistic transformation of *Lemna* fronds. The regulation of gene expression by phytochrome in *L. gibba* and *Arabidopsis* is reviewed.

=> d 15 so

L8 ANSWER 15 OF 18 CAPLUS COPYRIGHT 2003 ACS  
SO NATO ASI Series, Series H: Cell Biology (1991), 50 (Phytochrome Prop. Biol. Action), 167-79  
CODEN: NASBE4; ISSN: 1010-8793

=> s duckweed and agrobacter?

L9 10 DUCKWEED AND AGROBACTER?

=> dup rem l9

PROCESSING COMPLETED FOR L9

L10 9 DUP REM L9 (1 DUPLICATE REMOVED)

=> d 1-9 ti

L10 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2003 ACS

TI Methods for functional analysis of duckweed nucleic acids by high throughput screening

L10 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2003 ACS

TI Immunoglobulin binding protein arrays in plant cells

L10 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2003 ACS

TI Genetic transformation of duckweed *Lemna gibba* and *Lemna minor* DUPLICATE 1

L10 ANSWER 4 OF 9 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

TI A transient transformation system for duckweed (*Wolffia columbiana*) using *Agrobacterium*-mediated gene transfer.

L10 ANSWER 5 OF 9 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
TI Genetically engineered **duckweed**.

L10 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2003 ACS  
TI Methods for the genetic transformation of Lemnaceae with  
**Agrobacterium tumefaciens**

L10 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2003 ACS  
TI Transformation of **duckweed** (Lemna) plants with ballistic  
bombardment, electroporation, or **Agrobacterium** vectors

L10 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2003 ACS  
TI Simple (bench-top) bioassays and the isolation of new chemically diverse  
antitumor and pesticidal agents from higher plants

L10 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2003 ACS  
TI Phytochrome regulation of transcription: biochemical and genetic  
approaches

=> d 1-9 so

L10 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2003 ACS  
SO PCT Int. Appl., 38 pp.  
CODEN: PIXXD2

L10 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2003 ACS  
SO PCT Int. Appl., 129 pp.  
CODEN: PIXXD2

L10 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2003 ACS  
SO In Vitro Cellular & Developmental Biology: Plant (2001), 37(3), 349-353  
CODEN: IVCPEO; ISSN: 1054-5476

L10 ANSWER 4 OF 9 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
SO Journal of Applied Botany, (August, 2001) Vol. 75, No. 3-4, pp. 107-111.  
print.  
ISSN: 0949-5460.

L10 ANSWER 5 OF 9 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
SO Official Gazette of the United States Patent and Trademark Office Patents,  
(Mar. 21, 2000) Vol. 1232, No. 3, pp. No pagination. e-file.  
ISSN: 0098-1133.

L10 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2003 ACS  
SO PCT Int. Appl., 58 pp.  
CODEN: PIXXD2

L10 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2003 ACS  
SO PCT Int. Appl., 106 pp.  
CODEN: PIXXD2

L10 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2003 ACS  
SO Recent Advances in Phytochemistry (1999), 33(Phytochemicals in Human  
Health Protection, Nutrition and Plant Defense), 89-132  
CODEN: RAPHBE; ISSN: 0079-9920

L10 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2003 ACS  
SO NATO ASI Series, Series H: Cell Biology (1991), 50(Phytochrome Prop.  
Biol. Action), 167-79  
CODEN: NASBE4; ISSN: 1010-8793

=> d 6 pi

L10 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2003 ACS  
PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 9919497 A1 19990422 WO 1997-IL328 19971010  
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,  
DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR,  
KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ,  
PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG,  
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GN, ML, MR, NE, SN, TD, TG

AU 9745703 A1 19990503 AU 1997-45703 19971010  
CA 2312008 AA 19990422 CA 1998-2312008 19981008  
WO 9919498 A1 19990422 WO 1998-IL487 19981008  
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CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

AU 9894572 A1 19990503 AU 1998-94572 19981008  
EP 1021552 A1 20000726 EP 1998-947760 19981008  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO

=> d 7 so

L10 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2003 ACS  
SO PCT Int. Appl., 106 pp.  
CODEN: PIXXD2

=> d 7 pi

L10 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2003 ACS  
PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 9907210 A1 19990218 WO 1998-US16683 19980811  
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AU 9887799 A1 19990301 AU 1998-87799 19980811  
US 6040498 A 20000321 US 1998-132536 19980811  
EP 1037523 A1 20000927 EP 1998-939350 19980811  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, FI

JP 2001513325 T2 20010904 JP 2000-506820 19980811